12V Light Dimmer

This circuit, powered by 12vdc, functions as a dimmer.
R1 = 100K C1,C3 = 10µF/16V
R2 = 100K C2 = 0.01µF, ceramic
R3 = 100K T1 = 2N4401
R4 = 100K T2 = TIP32
R5 = 3K9 U1 = LM358
R6 = 3K9 L1 = Lantern Bulb
R7 = 470 S1 = On-Off Switch
R8 = 100
R9 = 220, 1/2 watt
P1 = 5K

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